## Making the Baking Soda Alkalinity Standard

## **Lab Guide**

What	YOU	Nee	П

☐ Baking soda (1.9 g)	☐ Stirring rod
☐ Balance	$\square$ 100-mL graduated cylinder
☐ 500-mL graduated cylinder	☐ Pen or pencil
☐ Distilled water	☐ 500-mL beaker

## In the Lab

- 1. Weigh out 1.9 g baking soda and add it to the 500-mL graduated cylinder.
- 2. Pour distilled water into the cylinder with the baking soda to the 500-mL mark.
- 3. Pour this baking soda solution into the 500-mL beaker, and stir it with a stirring rod to make sure all of the baking soda has dissolved.
- 4. Rinse the 500-mL graduated cylinder with distilled water. Measure 15 mL of baking soda solution with the 100-mL graduated cylinder and pour it into the clean 500-mL graduated cylinder.
- 5. Add distilled water to the solution in the 500-mL graduated cylinder to the 500-mL mark.
- 6. This solution is your standard and has an alkalinity of approximately 84 mg/L.